

# User Manual



**32PT6441/37**  
**32PT6442/37**



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# PHILIPS

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|--|---|--|

Know these  
**safety** symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**


**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

**ATTENTION:** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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## IMPORTANT SAFETY INSTRUCTIONS

### Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org)
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.

**Note to the CATV system installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

- 17. Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspiciously fall from the top of the set and cause product damage and/or personal injury.

- 18. Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

- 19. Power Lines** - An outdoor antenna should be located away from power lines.

- 20. Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

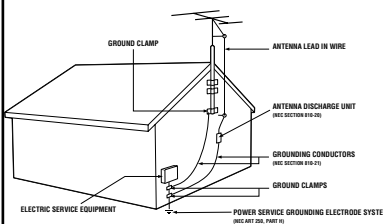
Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.

- 21. Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. comply with recommended international global safety standards for tilt and stability properties of its cabinet design.

a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

- 22. Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
- Install all batteries correctly, with + and - aligned as marked on the unit.
  - Do not mix batteries (old and new or carbon and alkaline, etc.).
  - Remove batteries when the unit is not used for a long time.

#### Example of Antenna Grounding as per NEC - National Electric Code



## PANEL LAYOUT

|        |                                      |             |             |             |             |             |             |
|--------|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Side 1 | MODEL<br>REGISTRATION<br>INFORMATION | PANEL<br>2  | PANEL<br>3  | PANEL<br>8  | PANEL<br>9  | PANEL<br>14 | PANEL<br>15 |
|        | SAFETY<br>INFO                       | PANEL<br>4  | PANEL<br>5  | PANEL<br>10 | PANEL<br>11 | PANEL<br>16 | PANEL<br>17 |
|        | PANEL<br>1                           | PANEL<br>6  | PANEL<br>7  | PANEL<br>12 | PANEL<br>13 | PANEL<br>18 | PANEL<br>19 |
| Side 2 | COVER                                | PANEL<br>20 | PANEL<br>21 | PANEL<br>26 | PANEL<br>27 | PANEL<br>32 | PANEL<br>33 |
|        | LIMITED<br>WARRANTY<br>(Panel 38)    | PANEL<br>22 | PANEL<br>23 | PANEL<br>28 | PANEL<br>29 | PANEL<br>34 | PANEL<br>35 |
|        | Panel<br>Index<br>and<br>Sequence    | PANEL<br>24 | PANEL<br>25 | PANEL<br>30 | PANEL<br>31 | PANEL<br>36 | PANEL<br>37 |

## PANEL INDEX

| Subject                              | Panel No. | Subject                             | Panel No. |
|--------------------------------------|-----------|-------------------------------------|-----------|
| Active Control . . . . .             | 20        | Cable Box Connection . . . . .      | 2         |
| Antenna/Cable Basic Connection . . . | 1         | Channel Edit . . . . .              | 14        |
| Audio/Video Connections              |           | Timer Controls                      |           |
| AV1 Input Jacks . . . . .            | 4         | Activate Control . . . . .          | 18-19     |
| Component Video Input Jacks . . .    | 7         | Clock . . . . .                     | 18-19     |
| Headphone Jack . . . . .             | 5         | Display Control . . . . .           | 18-19     |
| Monitor Output Jacks . . . . .       | 8         | Specific Channel . . . . .          | 18-19     |
| S-Video Input Jacks . . . . .        | 6         | Start or Stop Time . . . . .        | 18-19     |
| Side AV Input Jacks . . . . .        | 5         | Closed Caption Control . . . . .    | 28        |
| AutoLock™ Controls                   |           | Demo Mode . . . . .                 | 27        |
| Access Code . . . . .                | 22        | Factory Service Locations . . . . . | 36-37     |
| Block All Channels . . . . .         | 24        | Format Control . . . . .            | 17        |
| Block Channels . . . . .             | 23        | Language Controls . . . . .         | 11        |
| Clear All Blocked Channels . . . . . | 24        | Limited Warranty . . . . .          | 38        |
| Movie Ratings . . . . .              | 25        | Picture Menu Controls . . . . .     | 15        |
| Other Blocking Options . . . . .     | 27        | QuadraSurf™ . . . . .               | 30-31     |
| TV Ratings . . . . .                 | 26        | Remote Batteries . . . . .          | 3         |
| Understanding AutoLock™ . . . . .    | 21        | Remote Button Descriptions . . .    | 9-10      |
| Automatically Programming TV . . .   | 13        | Rotation Controls . . . . .         | 17        |
| AutoPicture™ Control . . . . .       | 29        | Sleeptimer . . . . .                | 28        |
| AutoSound™ Control . . . . .         | 29        | Sound Menu Controls . . . . .       | 16        |
| Basic Remote Operation . . . . .     | 3         | Tuner Mode . . . . .                | 12        |
| Basic Television Operation . . . . . | 3         |                                     |           |

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## I BASIC ANTENNA AND CABLE CONNECTIONS

**Y**our home's signal input might come from a single (75 ohm) round cable, a Converter Box, or from an antenna. In either case the connection to the TV is very easy.

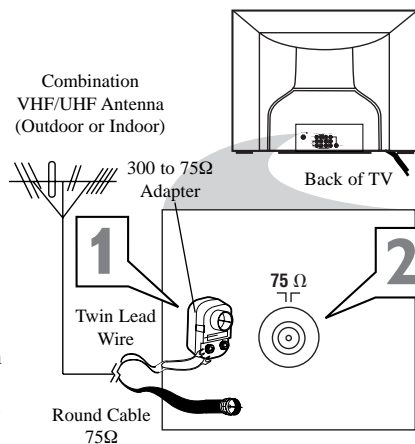
- 1 If your Cable TV signal or Antenna signal is a round cable (75 ohm)** then you're ready to connect to the TV. **If your antenna has flat twin-lead wire (300 ohm)**, you first need to attach the antenna wires to the screws on a 300 to 75 ohm adapter.

**If you have a Cable Converter Box:** Connect the Cable TV signal to the Cable Signal IN(put) plug on the Converter.

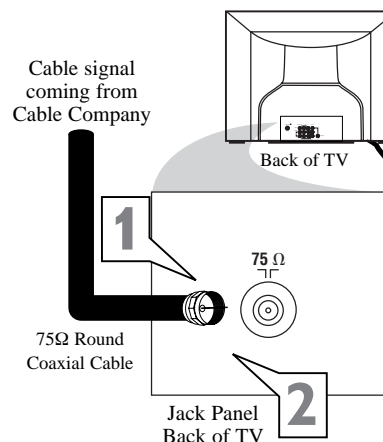
- 2 Connect the Cable TV cable or Antenna cable (or 300 to 75 ohm adapter) to the 75Ω plug on the TV.**

**If you have a Cable Converter Box:** Connect the OUT(put) plug from the Converter to the 75Ω plug on the TV.

### Antenna Connection



### Direct Cable Connection



### HELPFUL HINT

After using the AutoProgram Control, press the CH + and – buttons to scroll through all the channels stored in the television's memory.

## 2

## CABLE BOX CONNECTIONS

*If your cable signal uses a cable box or decoder, follow the easy steps below to complete the connection.*

### Cable Box (w/RF In/Outputs):

This connection will be mono.

- 1** Connect the Cable Company supplied cable to the signal IN(put) plug on the back of the Cable Box.
- 2** Using a separate round coaxial cable, connect one end to the OUT(put) (TO TV) plug on the back of the Cable Box.
- 3** Connect the other end of the round coaxial cable to the 75 $\Omega$  input on the back of the television. Screw it down finger tight.

**NOTE:** If applicable, set the OUTPUT CHANNEL SWITCH on the back of the cable box to CH 3 or 4. Tune the TV to the same channel and change channels at the cable box. In some cases, the cable box will automatically tune to either channel 3 or 4, change channels until the picture appears.

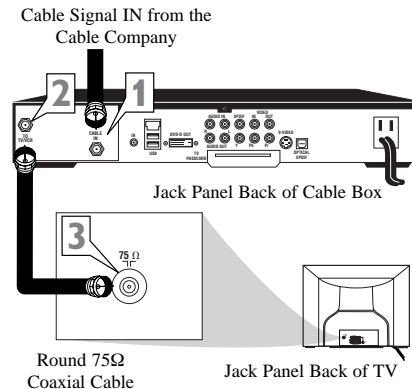
### Cable Box (w/Audio/Video Outputs):

This connection will supply Stereo sound.

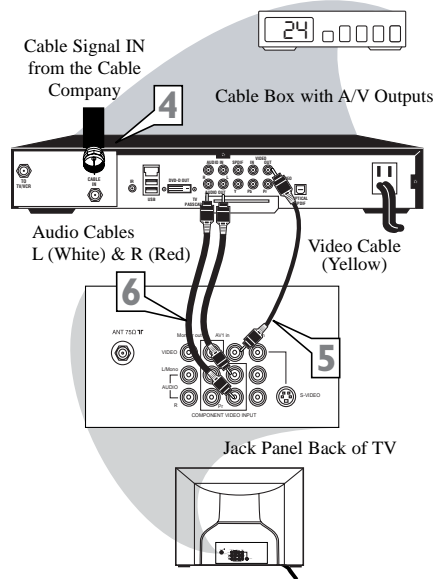
- 4** Connect the Cable Company supplied cable to the cable signal IN(put) plug on the back of the Cable Box.
- 5** Using a RCA type Video Cable, connect one end of the cable to the Video (or ANT, your cable box may be labeled differently) Out jack on the cable box and the other end to the AV1 Video Input on the TV.
- 6** Connect one end of the Audio Left and Right Cable to the left and right Audio Out L & R jacks on the cable box. Connect the other end to the AV1 Audio L & R Input jacks on the TV.

**NOTE:** Use the CH+ or CH- on the TV remote control to tune to the AV1 channel for the cable box signal. Once tuned, change channels at the cable box, not the television.

### Cable Box (w/RF In/Outputs):



### Cable Box (w/Audio/Video Outputs):



### 3 BASIC TV AND REMOTE CONTROL OPERATION

- 1 Press the **POWER** button to turn the TV ON.

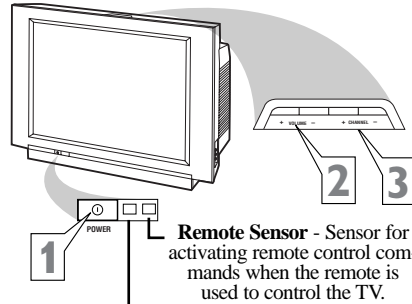
Note: You can also press any button on the front of the TV to turn the TV ON.

- 2 Press the **VOLUME +** button to increase the sound level, or the **VOLUME -** button to lower the sound level.

Pressing both buttons at the same time will display the on-screen menu. Once in the menu, use these buttons to make adjustments or selections.

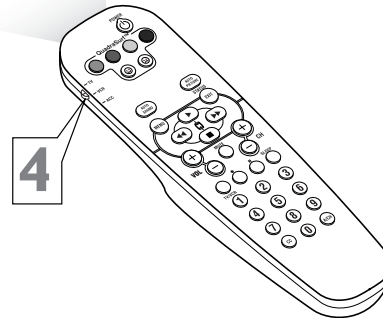
- 3 Press the **CHANNEL UP +** or **DOWN -** button to select TV channels.

- 4 Point the remote control toward the remote sensor window on the TV when operating the TV with the remote.



**Remote Sensor** - Sensor for activating remote control commands when the remote is used to control the TV.

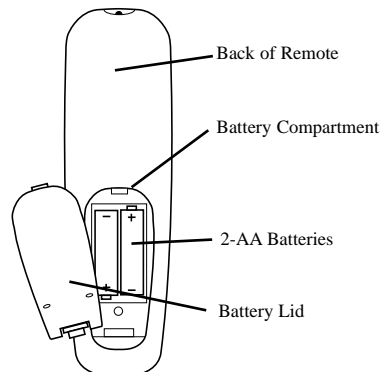
**Standby Light Indicator** - Red light will show when in the Standby Mode. Press the Power button to return the TV to its active state.



#### REMOTE CONTROL

*To load the supplied batteries into the remote:*

1. Remove the **battery compartment lid** on the back of the remote.
2. Place the **batteries (2-AA)** in the remote. Be sure the (+) and (-) ends of the batteries line up correctly (inside of case is marked.)
3. Reattach the **battery lid**.

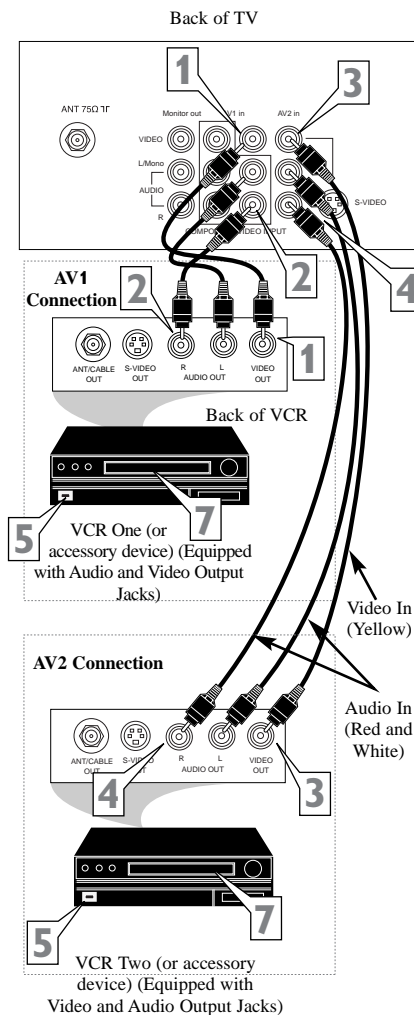


# 4

## AV (AUDIO/VIDEO) INPUT CONNECTION

*The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks. Both the AV1 and AV2 Input Jack connections are shown on this page, but either one can be connected alone. Follow the easy steps below to connect your accessory device to the AV1 and AV2 IN Jacks located on the back of the TV.*

- 1** Connect the VIDEO (yellow) cable to the VIDEO AV1 IN (or AV2 IN) jack on the back of the TV.
- 2** Connect the AUDIO (red and white) cables to the AUDIO (left and right) AV1 IN (or AV2 in) jacks on the rear of the TV.
- 3** Connect the VIDEO (yellow) cable to the VIDEO OUT jack on the back of the VCR (either one or two) or accessory device being used.
- 4** Connect the AUDIO (red and white) cables to the AUDIO (left and right) OUT jacks on the rear of the VCR (either one or two) or accessory device being used.
- 5** Turn the VCR (either one or two) or accessory device and the TV ON.
- 6** Press the CH+ or CH- buttons set the TV to its AV1 or AV2 channel.
- 7** With either of the VCRs (or accessory devices) ON and a pre-recorded tape (CD, DVD, etc.) inserted, press the PLAY button to view the tape on the television.



### HELPFUL HINT

Audio and video cables are not supplied with the TV, but are available from Philips or electronics retailers.



## SIDE AV CONNECTIONS

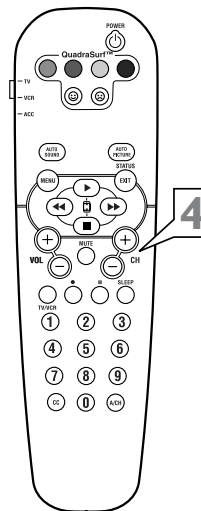
**1 Connect the video (yellow) cable** from the Video output on the Camera (or accessory device) to the Video (yellow) Input located on the **SIDE** of the TV.

**For Mono Devices:** Connect one end of the audio cable from the Audio Out jack on the device to the Audio In (white) jack on the SIDE of the television.

**4** Press the **CH+** or **CH-** buttons on the remote control to tune the TV to the side input jacks. “Front” will appear on the TV screen.

Diagram illustrating the connection of an external video and audio device to a TV:

- 3** Side Jack panel of TV
- 1** Video Cable
- 2** Audio Cables
- 3** **5** Video Camera (with VIDEO, AUDIO, LEFT, RIGHT, and S-VIDEO buttons)
- Optional Headphones



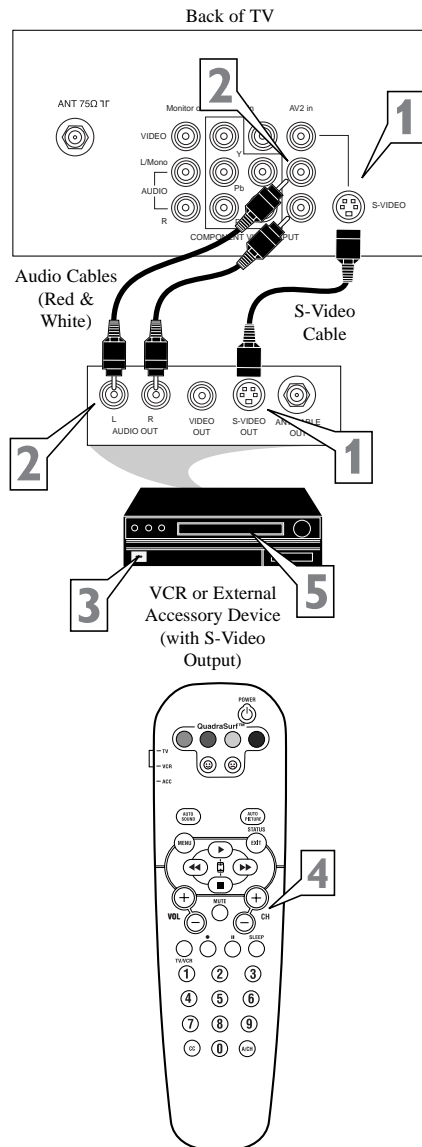
# 6

## S-VIDEO (S-VHS) INPUT CONNECTIONS

The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

**NOTE:** The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.

- 1** Connect one end of the **S-VIDEO CABLE** to the S-VIDEO jack on the back of the TV. Then connect one end the **AUDIO** (red and white) **CABLES** to the AV1 in **AUDIO** L and R (left and right) jacks on the rear of the TV.
- 2** Connect other end of the **S-VIDEO CABLE** to the S-VHS (S-Video) OUT jack on the back of the VCR. Then connect the other ends of the **AUDIO** (red and white) **CABLES** to the **AUDIO** (left and right) **OUT** jacks on the rear of the VCR.
- 3** Turn the **VCR** and the **TV** **ON**.
- 4** Press the **CH +** or **CH -** buttons on the remote to scroll the channels until **SVHS** appears in the upper left corner of the TV screen.
- 5** Now your ready to place a pre-recorded video tape in the VCR and press the **PLAY** button.

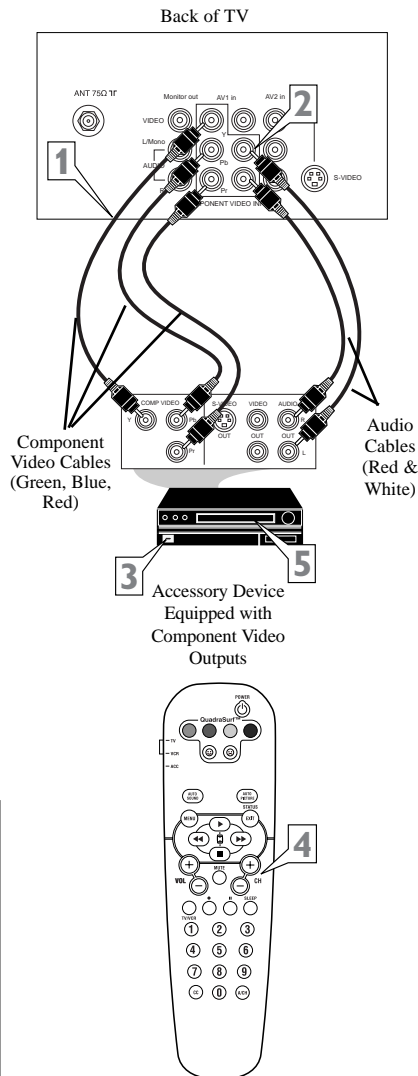


## 7 COMPONENT VIDEO (CVI) INPUT CONNECTIONS

*Component Video inputs provide for the highest possible color and picture resolution in the playback of digital signal source material, such as with DVD players. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).*

- 1** Connect the Component (Y, Pb, Pr) Video OUT jacks from the DVD player (or similar device) to the (Y, Pb, Pr) in(put) jack on the TV. When using the Component Video Inputs, it is best not to connect a signal to the AV in Video Jack.
- 2** Connect the red and white AUDIO CABLES to the Audio (left and right) output jacks on the rear of the accessory device to the Audio (L and R) AV1 in Input Jacks on the TV.
- 3** Turn the TV and the DVD (or digital accessory device) ON.
- 4** Press the CH + or CH – buttons to scroll the available channels until CVI appears in the upper left corner of the TV screen.
- 5** Insert a DVD disc into the DVD player and press the **PLAY ►** button on the DVD Player.

The CVI connection will dominate over the AV1 in Video Input. When a Component Video Device is connected as described, it is best not to have a video signal connected to the AV1 in Video Input jack.



### HELPFUL HINT

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (for example, Y, Pb, Pr; Y, B-Y, R-Y; Y, Cr, Cb). Although abbreviations and terms may vary, the letters *b* and *r* stand for the blue and red color component signal connectors, and *Y* indicates the luminance signal. Refer to your DVD or digital accessory owner's manual for definitions and connection details.

# 8

## MONITOR OUT(PUT) CONNECTIONS

*The Audio/Video (Monitor) Output jacks are great for recording with a VCR or used to connect an external audio system for better sound reproduction.*

### AUDIO SYSTEM CONNECTION:

- 1** Connect one end of the **R(ight) and L(ef) AUDIO (Monitor Out)** jacks on the TV to the R and L audio input jacks on your amplifier or sound system. Set the audio system's volume to a normal listening level.
- 2** Turn the TV and audio system **ON**. To adjust the volume on the audio system, you will need to change the volume at the external audio system, not the television.

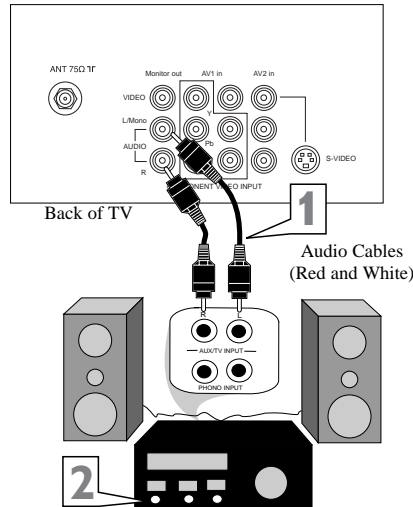
### SECOND VCR CONNECTION:

**NOTE:** Refer to panel number 4 for the proper hookup of the first VCR. Follow the instructions on how to tune to the AV1 channel to view a pre-recorded tape.

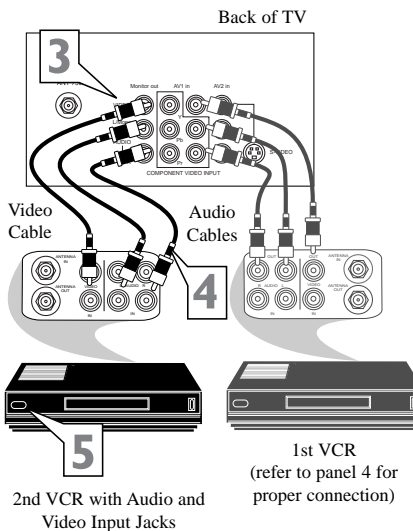
The following steps allow you to connect a second VCR to record the program while your watching it.

- 3** Connect one end of the **yellow Video Cable** to the Monitor Out VIDEO plug. Connect the other end to the VIDEO IN plug on the second VCR.
- 4** Connect one end of the **red and white Audio cable** from the Monitor Out AUDIO L and R plugs on the TV to the AUDIO IN plugs on the VCR.
- 5** Turn the **Second VCR ON**, insert a VHS tape and it's ready to record what's being viewed on the TV screen.

### AUDIO SYSTEM CONNECTION:



### SECOND VCR CONNECTION:



# 9

## REMOTE CONTROL BUTTON DESCRIPTIONS

**QUADRASURF Buttons** (Red, Green, Yellow, Blue) Allows you to store and surf up to 10 channels you choose for each colored button.

**SMILEY Button** - Press to add channels to the "QuadraSurf" lists. Works with all colored buttons.

**TV/VCR/ACC Mode Switch** - Slide to position of TV to control TV functions, VCR to control VCR, and ACC for Cable Converter, DBS, DVD, etc., functions.

**AUTO SOUND Button** - Press repeatedly to choose from different factory pre-defined sound settings. Choose from Personal (how you set the Sound Menu options), Voice (for programming with speaking only), Music (for musical type programs such as concerts), or Theatre (used when watching movies).

**MENU Button** - Press to display the on-screen menu. Also can be used to back out of the on-screen menu until it disappears from the TV's screen.

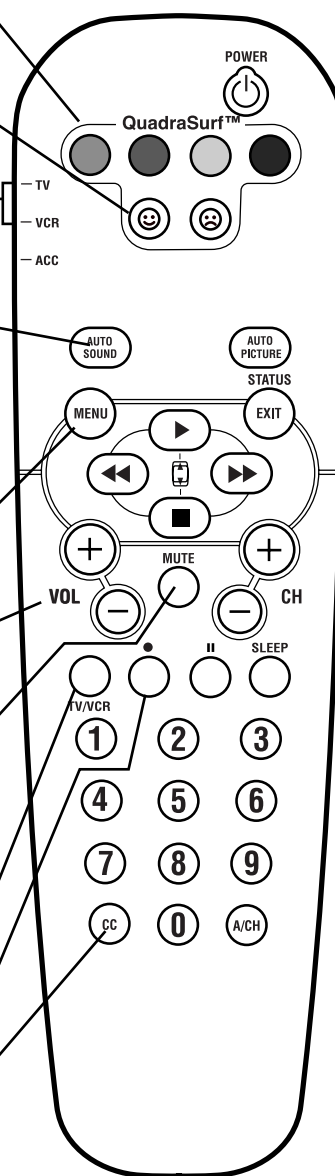
**VOL(ume) + or - Buttons** - Press the VOL + button to increase the TV's sound level. Press the VOL - button to decrease the TV's sound level.

**MUTE Button** - Press the mute button to eliminate the sound being heard from the TV. "MUTE" will be displayed on the TV's screen. Press again to restore the TV's volume to it's previous level. pressing this button for 3-4 seconds will activate the Demo Mode. (See panel 27 for more details.)

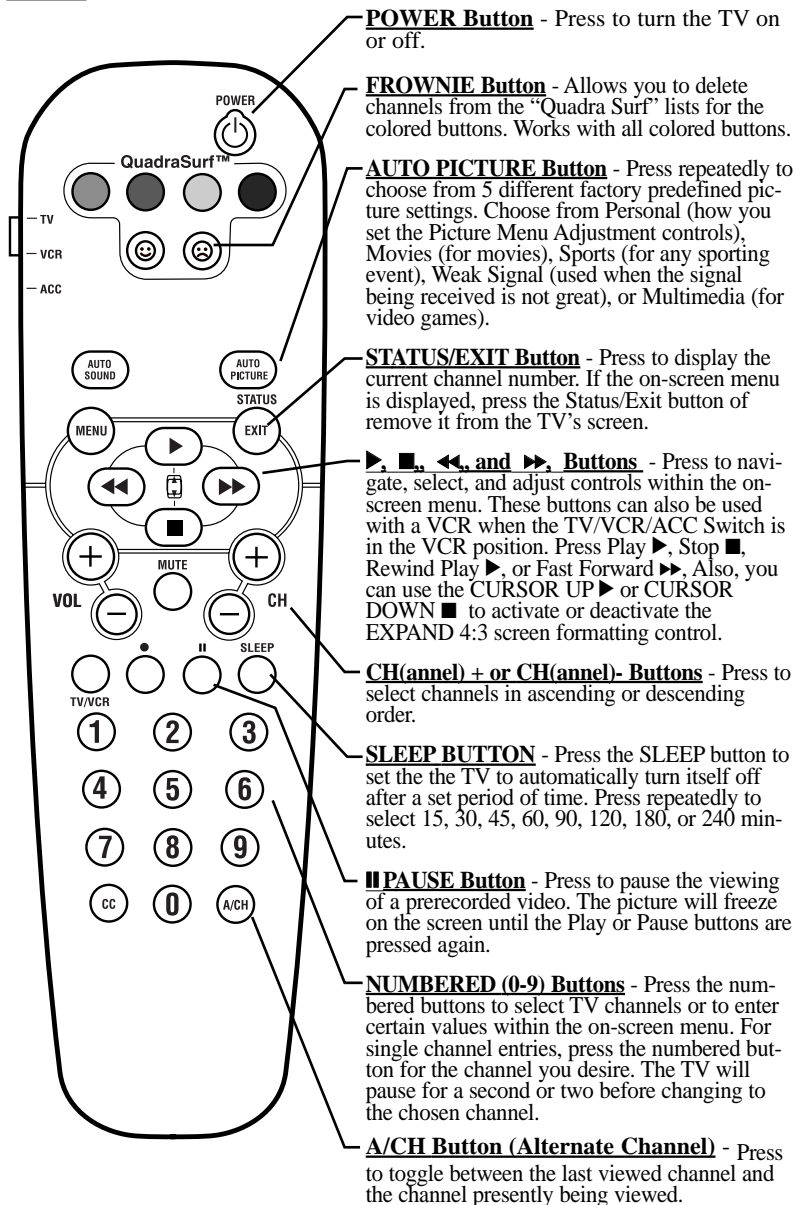
**CLOCK (TV/VCR) Button** - Press to display the Timer menu when in TV mode.

● **VCR Record Button** - Press to start a VCR recording of a TV program.

**CC Button** - Press to activate the Closed Captioning options. Repeatedly pressing the CC button will scroll the available options on the TV screen.



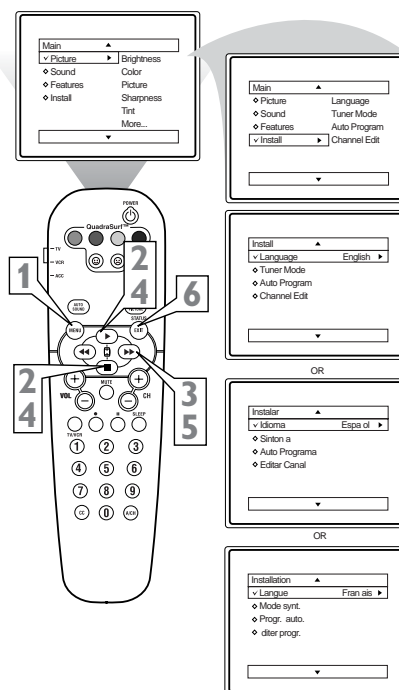
## 10 REMOTE CONTROL BUTTON DESCRIPTIONS



## II HOW TO USE THE LANGUAGE CONTROL

*For French and Spanish speaking TV owners an onscreen Language option is present. With the Language control you can set the TV's on-screen menu to be shown in English, French, or Spanish.*

- 1** Press the **MENU** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** ► or **DOWN** ■ buttons to scroll through the on-screen menu until the word **Install** is highlighted.
- 3** Press the **CURSOR RIGHT** ►► button to display the **Install** menu features.
- 4** Press the **CURSOR UP** ► or **DOWN** ■ buttons to scroll through the Install features until the word **Language** is highlighted.
- 5** Press the **CURSOR RIGHT** ►► button repeatedly to select English, Français (French), or Español (Spanish).
- 6** When finished, press the **STATUS/EXIT** button to remove the menu from the TV's screen.



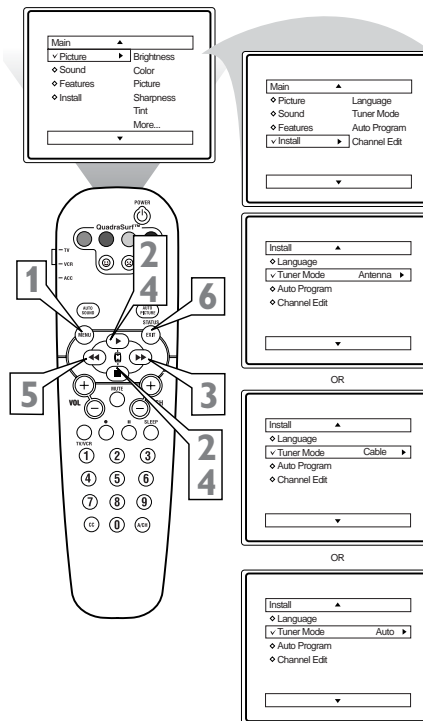
### HELPFUL HINT

The Language control only makes the TV's on-screen Menu items appear in English, Spanish, or French text. It does not change the other on-screen text features such as Closed Caption (CC) TV shows.

## 12 HOW TO USE THE TUNER MODE CONTROL

The **TUNER MODE** control allows you to change the TV's input signal to either **ANTENNA**, **CABLE**, or **AUTO** mode. It's important for the TV to know what type of signal to look for (Cable TV or an Antenna). In the **AUTO** mode, when the **AUTO PROGRAM** feature is activated, the TV will automatically choose the correct mode.

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll through the on-screen menu until the word **Install** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **Install** menu features.
- 4** Press **CURSOR UP** or **DOWN** buttons to scroll the **Install** features until the words **Tuner Mode** is highlighted.
- 5** Press the **CURSOR RIGHT** button to select either **Antenna**, **Cable**, or **Auto** mode.
- 6** When finished, press the **STATUS /EXIT** button to remove the on-screen menu from the TV's screen.



### HELPFUL HINTS

When **CABLE** is selected, channels 1-125 are available.

When **ANTENNA** is selected, channels 2-69 are available.

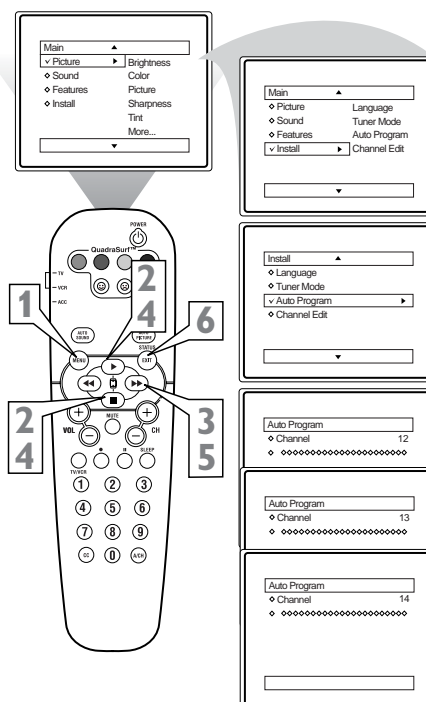
When **AUTO** is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the **AUTO PROGRAM** feature is activated.



**Y**our TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+), (-) buttons are pressed.

*Note: Make sure the antenna or cable signal connection has been completed before AUTO PROGRAM is activated.*

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** ► or **DOWN** ■ buttons to scroll through the on-screen menu until the word **Install** is highlighted.
- 3** Press the **CURSOR RIGHT** ►► button to display the **Install** menu features.
- 4** Press **CURSOR UP** ► or **DOWN** ■ buttons to scroll the Install features until the words **Auto Program** are highlighted.
- 5** Press the **CURSOR RIGHT** ►► button to start the Auto Program scanning of channels. Auto Programming will store all available channels in the TV's memory then tune to the lowest available channel when done.
- 6** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.



### HELPFUL HINTS

When CABLE is selected, channels 1-125 are available.

When ANTENNA is selected, channels 2-69 are available.

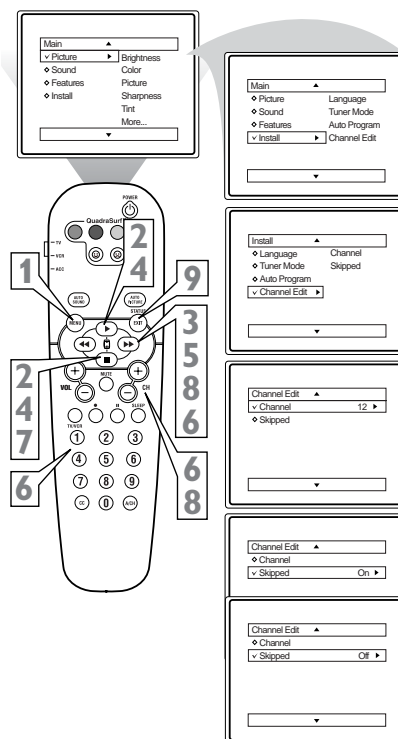
When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

# 14

## CHANNEL EDIT

*Channel Edit makes it easy for you to ADD or DELETE channels from the list of channels stored in the TV's memory.*

- 1** Press the **MENU** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** ► or **DOWN** ■ buttons to scroll through the on-screen menu until the word **Install** is highlighted.
- 3** Press the **CURSOR RIGHT** ►► button to display the **Install** menu features.
- 4** Press the **CURSOR UP** ► or **DOWN** ■ buttons to scroll through the Install features until the words **Channel Edit** are highlighted.
- 5** Press the **CURSOR RIGHT** ►► button to display the Channel Edit options.
- 6** With the **Channel Edit** options displayed, and **Channel** highlighted; you can use the cursor buttons to scroll through all available channels that you wish to add (skipped OFF) or delete (Skipped ON) from the TV's memory. You can also use the **NUMBERED** buttons to go directly to a specific numbered channel that you want to add or skip. Or, you can also use the **CH+** or **CH-** to quickly scan through the channels that have not been skipped.
- 7** Using the **CURSOR DOWN** ■ button, scroll the menu to highlight the word **SKIPPED**.
- 8** Now use the **CURSOR RIGHT** ►► button to toggle between **On** or **Off**. If **ON** is selected the channels is skipped when scrolling channels with the **CH+** or **CH-** buttons. If **OFF** is selected the channels is not skipped when scrolling channels with the **CH+** or **CH-** buttons.
- 9** When finished, press the **STATUS/EXIT** button to remove the menu from the screen.

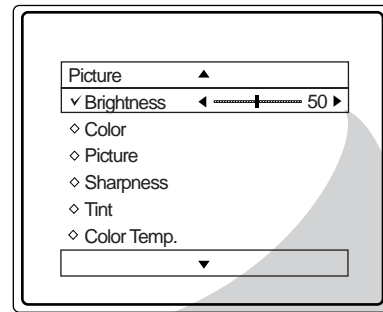


### HELPFUL HINTS

An "X" appearing in front of any channel will indicate that channel has skip on. When the **CH +** or **CH -** buttons are used, those channels will be skipped.

To adjust your TV picture controls, select a channel and use the Picture Menu Controls listed below:

- 1 Brightness Control** - Press the **CURSOR ►►** or **◄◄** buttons until the darkest parts of the picture are as bright as you prefer.
- 2 Color Control** - Press the **CURSOR ►►** or **◄◄** buttons to add or eliminate color.
- 3 Picture Control** - Press the **CURSOR ►►** or **◄◄** buttons until lightest parts of the picture show good detail.
- 4 Sharpness Control** - Press the **CURSOR ►►** or **◄◄** buttons to improve detail in the picture.
- 5 Tint Control** - Press the **CURSOR ►►** or **◄◄** buttons to obtain natural skin tones.
- 6 Color Temp Control** - Press the **CURSOR ►►** or **◄◄** buttons to select Normal, Cool, or Warm picture preferences. (Normal will keep the whites, white; Cool will make the whites, bluish; and Warm will make the whites, reddish.)
- 7 DNR Control** - Press the **CURSOR ►►** or **◄◄** buttons to turn DNR On or Off. Dynamic Noise Reduction helps to eliminate "noise" from the picture.
- 8 Contrast + Control** - Press the **CURSOR ►►** or **◄◄** buttons to toggle the control On or Off. The Contrast + control helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.



✓ Brightness ◄—————|—————► 65

✓ Color ◄—————|—————► 50

✓ Picture ◄—————|—————► 50

✓ Sharpness ◄—————|—————► 50

✓ Tint ◄—————|—————► 0

✓ Color Temp. Normal

Warm  
or  
Cool

✓ DNR On

Off

✓ Contrast + On

Off

To adjust your TV sound, select and use the Sound Menu Controls listed below:

**1 Treble:** Press the **CURSOR ►►** or **◄◄** buttons to adjust the control. The control will enhance the high frequency sounds.

**2 Bass:** Press the **CURSOR ►►** or **◄◄** buttons to adjust the control. The control will enhance the low frequency sounds.

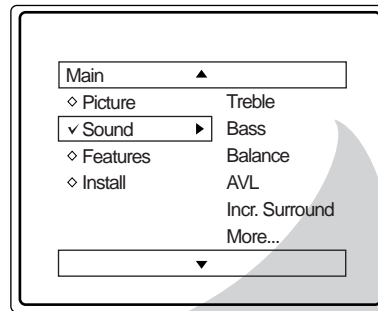
**3 Balance:** Press the **CURSOR ►►** or **◄◄** buttons to adjust the level of sound coming from the left and right speakers.

**4 AVL:** (Auto Volume Leveler) Press the **CURSOR ►►** or **◄◄** buttons to turn the control On or Off. When On, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

**5 Incr. Surround:** Press the **CURSOR ►►** or **◄◄** buttons to select between Dolby Virtual or Stereo settings (If Stereo), or select Spatial or Mono (If Mono).

**6 SAP:** Press the **CURSOR ►►** or **◄◄** buttons to toggle this control to On or Off. SAP is short for Secondary Audio Programming and is sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound. Note: If SAP is not present on a selected show No SAP will appear on the screen.

**7 Sound:** Press the **CURSOR ►►** or **◄◄** buttons to select between Stereo or Mono settings. Note: If Stereo is not present on a selected show and the TV is placed in the Stereo mode, the sound coming from the TV will remain in the Mono mode.



✓ Treble ◄ ———|——— 50 ►

✓ Bass ◄ ———|——— 50 ►

✓ Balance ◄ L ———|——— R ►

✓ AVL On  
or Off

✓ Incr. Surround Spatial  
or Mono

✓ Incr. Surround Dolby Virtual  
or Stereo

✓ SAP On  
or Off

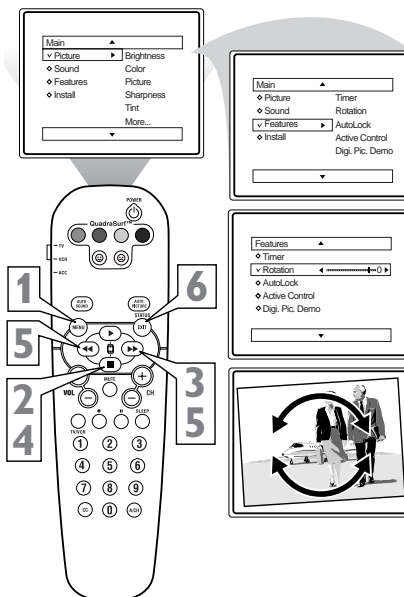
✓ Sound Mono  
or Stereo

# 17

## HOW TO USE THE ROTATION CONTROL

*In rare cases the video supplied to the TV screen might show slightly tilted one way or another. The Tilt Adjust control will allow you to correct the problem by adjusting the screen in a clockwise or counterclockwise direction.*

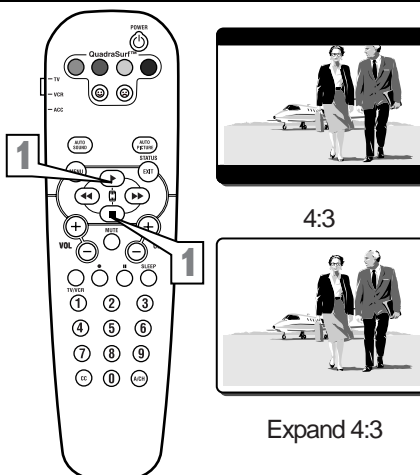
- 1** Press the **MENU** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR DOWN** buttons until **Features** is highlighted.
- 3** Press the **CURSOR RIGHT** button and the menu will shift to the left.
- 4** Press the **CURSOR DOWN** buttons repeatedly until the **Rotation** control is highlighted.
- 5** Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to rotate the picture on the screen clockwise or counterclockwise. Please note that the amount of rotation will be very minimal.
- 6** Press the **STATUS/EXIT** button to remove the menu from the screen.



## HOW TO USE THE 4:3 EXPAND FORMAT CONTROL

*Many times while watching movies from a DVD player the image is shown in "letter box" format. This is the format that is shown in movie theaters, when shown on a TV screen, the image will have areas of black on top and bottom of the screen.*

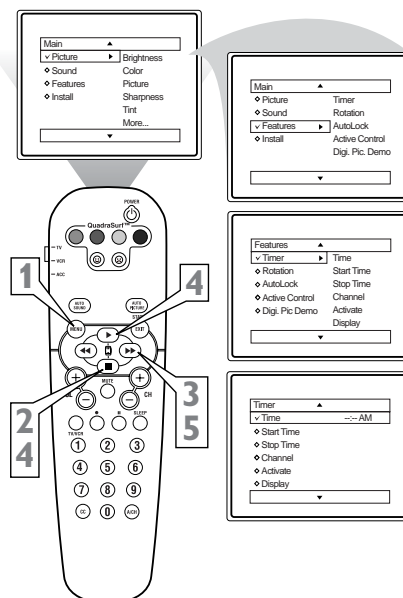
- 1** Press the **CURSOR UP** or **DOWN** buttons to select one of the two options 4:3 or Expand 4:3.  
**4:3** - Standard format for the TV.  
**Expand 4:3** - Enlarges the picture to fill out the entire screen area, eliminating the "letter box" effect.



Your television comes with an onscreen clock. The TV can also be set to turn on or off at a specific time and tune to a specific channel when it powers itself on.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR DOWN** button until **Features** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **Features** menu.
- 4** Press the **CURSOR UP** or **DOWN** buttons repeatedly to highlight one of the Timer controls. These controls are Time, Start Time, Stop Time, Activate, and Display.
- 5** Press the **CURSOR RIGHT** button to display the menu for the selected item.

Continue to Step 5 on the next page.



### HELPFUL HINTS

Remember, be sure to press "0" and then the hour number for single digit entries.

You can get to the Clock setting by pressing the Clock button on the remote control.

The TV's clock settings may be lost when the TV is unplugged or when AC power to the set is interrupted.

## 19 HOW TO USE THE TIMER MENU CONTROLS (CONT'D)

**5** Make adjustments to the selected items by following the steps below.

**Time:** Enter the current time using the Numbered buttons. Use the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◄◄ buttons to toggle the AM and PM setting.

**Start Time:** Use the numbered buttons to enter the time you want the TV to turn itself On. Use the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◄◄ buttons to toggle the AM and PM setting.

**Stop Time:** Use the numbered buttons to enter the time you want the TV to turn itself Off. Use the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◄◄ buttons to toggle the AM and PM setting.

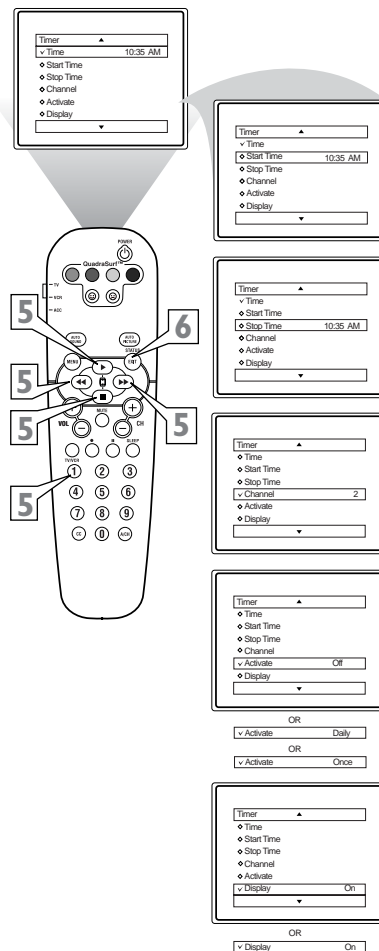
**Channel:** Use the NUMBERED buttons or the CH + or CH- buttons to enter the desired start-up channel.

**Activate:** Set the timer to turn itself On or Off Once or Daily. Press the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◄◄ buttons to select Once, Daily, or Off.

**Display:** Press the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◄◄ buttons to toggle between On or Off. If On is selected, the time will be displayed all the time when the TV is on. When Off is selected, the time will only appear when the STATUS/EXIT button is pressed.

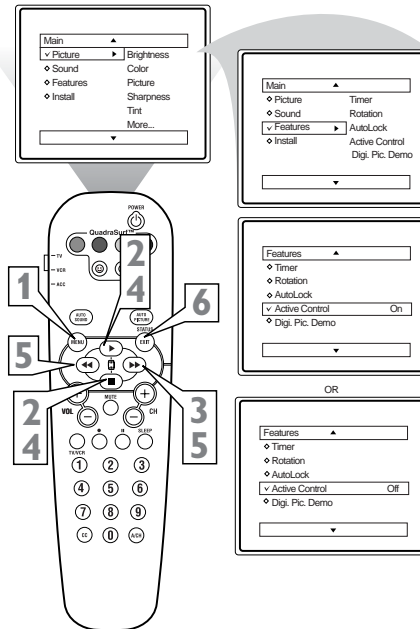
**6** Press the **STATUS/EXIT** button to remove the onscreen menu from the TV screen.

**NOTE:** You can also press the **CLOCK** button on the remote control to go directly to the Timer menu.



*The Active Control monitors and adjusts incoming video signals to help provide the best picture quality. When you choose to turn the Active Control On, the picture sharpness and noise reduction are controlled automatically. Active Control adjusts these picture settings continuously and automatically.*

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll through the on-screen menu until the word **Features** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **Features** menu.
- 4** Press the **CURSOR UP** or **DOWN** buttons to repeatedly until **Active Control** is highlighted.
- 5** Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to toggle the Active Control On or Off.
- 6** When finished, press the **STATUS /EXIT** button to remove the on-screen menu from the TV's screen.





*The AutoLock™ feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of viewing children may watch.*

**AutoLock™ offers various BLOCKING controls from which to choose:**

**Access Code** - An Access Code must be set to prevent children from unblocking questionable or censored programming set by their parents.

**Channel Block** - After an access code has been programmed, you can block individual channels including the A/V inputs.

**Clear All** - Allows you clear all channels being blocked from your viewing set with the Channel Block Control.

**Block All** - Allows you to block ALL channels and A/V inputs at one time.

**Movie Ratings** - Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America.

**TV Ratings** - Just like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by TV broadcasters.

**MOVIE RATINGS**

**G: General Audience** - All ages admitted. Most parents would find this program suitable for all ages.

**PG: Parental Guidance Suggested** - This programming contains material that parents may find unsuitable for younger children.

**PG-13: Parents Strongly Cautioned** - This programming contains material that parents may find unsuitable for children under the age of 13.

**MOVIE RATINGS Continued**

**R: Restricted** - This is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian.

**NC-17: No one under the age of 17 will be admitted.** - This type of programming should be viewed by adults only.

**X: Adults Only** - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

**TV RATINGS**

**TV-Y** -- Designed for a very young audience, including children ages 2-6.

**TV-Y7** -- It may be appropriate for children age 7 and above who have acquired the development skills needed to distinguish between make-believe and reality.

**TV-G** -- Suitable for most audiences, this type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

**TV-PG** -- This program contains material that parents may find unsuitable for younger children. Could contain Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

**TV-14** -- This program contains some material that many parents would find unsuitable for children under 14 years of age. This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

**TV-MA** -- This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

# 22

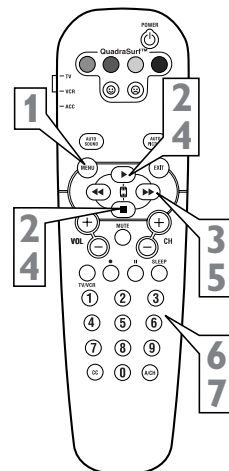
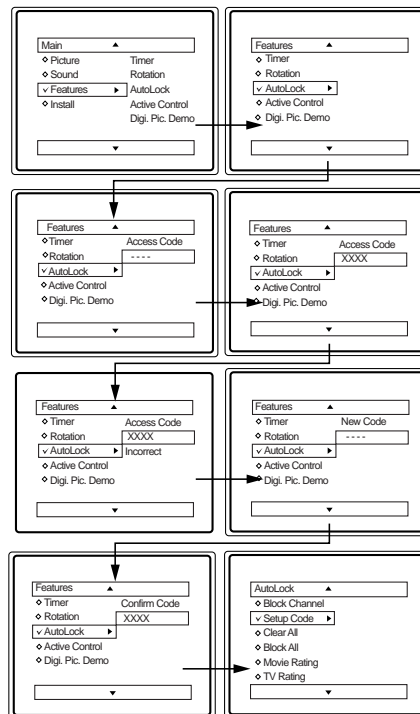
## SETTING UP AN ACCESS CODE

Over the next few panels you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

First, let's start by learning how to set a personal access code:

- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons until the word **Features** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the Features menu options.
- 4** Press the **CURSOR UP** or **DOWN** buttons until the words **Auto Lock™** are highlighted.
- 5** Press the **CURSOR RIGHT** button. The screen will read, "Access Code - - - -."
- 6** Using the **NUMBERED** buttons, enter 0, 7, 1, 1. "XXXX" appears on the Access Code screen as you press the numbered buttons. "Incorrect Code" will appear on the screen, and you will need to enter 0, 7, 1, 1 again.
- 7** The screen will ask you to enter a "New Code." Enter a "new" 4 digit code using the **NUMBERED** buttons. The screen will then ask you to **CONFIRM** the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code and then display the AutoLock™ menu options.

Proceed to the next panel to learn more...



# 23

## BLOCK CHANNELS

**A**fter your personal access code has been set (see previous page), you are now ready to select the channels or the A/V Inputs you want to block out or censor. Once you've entered your access code and the AutoLock™ features are displayed on the screen:

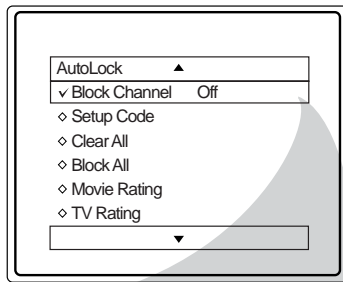
**1** Press the **CURSOR UP** or **DOWN** buttons until the words **Block Channel** are highlighted.

**2** Press the **CURSOR RIGHT** button to turn blocking ON or OFF for that channel. When ON is selected the channel will be blocked.

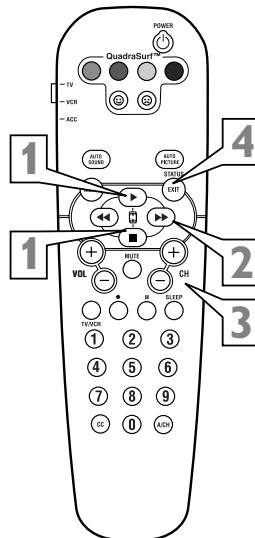
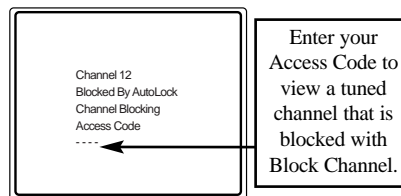
**3** Press the **CH +** or **CH -** button to select other channels you wish to block. Repeat steps 2-3 to block the new channel.

**4** When finished, press the **STATUS/EXIT** button to remove the menu from the screen.

**NOTE:** If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code.






✓ Block Channel On




## 24 BLOCK/CLEAR ALL CHANNELS AT THE SAME TIME

**A**fter blocking specific channels there may come a time when you want to block or clear all the channels at the same time. Once you've entered your access code and the AutoLock™ features are displayed on the screen:

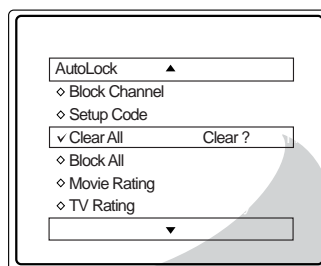
**1** Press the **CURSOR UP**  or **DOWN**  buttons to select either Clear All or Block All.

**2** If **Clear All** is selected, press the **CURSOR RIGHT**  button to clear all blocked channels. All channels will be viewable.

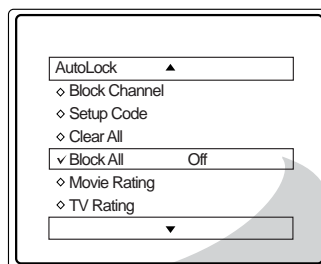
If **Block All** is selected, press the **CURSOR RIGHT**  button to turn the control On or Off. When On is selected, ALL available channels will be blocked from viewing.

**3** When finished, press the **STATUS/EXIT** button to remove the menu from the screen.

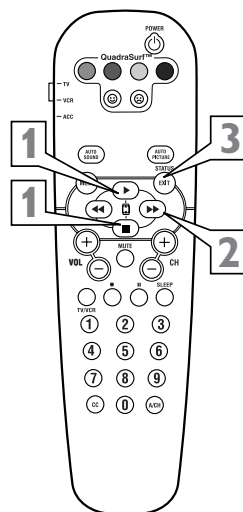
**NOTE:** If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code.



✓ Clear All Cleared





✓ Block All On






# 25


## MOVIE RATINGS

*The AutoLock™ feature can block programming based on the Movie Industry ratings. Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

**1** Press the **CURSOR UP**  or **DOWN**  buttons to highlight the words Movie Rating.

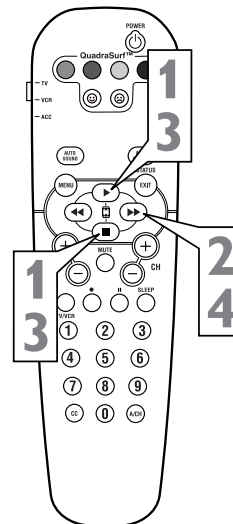
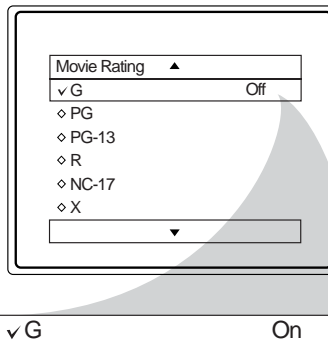
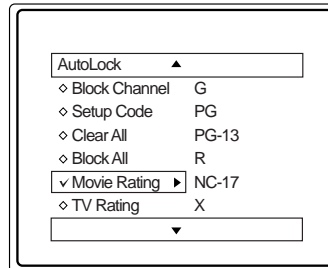
**2** Press the **CURSOR RIGHT**  button to display the **Movie Rating** options (G, PG, PG-13, R, NC17, or X).

**3** Press the **CURSOR RIGHT**  or **CURSOR LEFT**  buttons to highlight any of the Movie Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

**4** Use the **CURSOR RIGHT**  button on the remote to turn the rating option On or Off.






When a rating level is chosen to be blocked, any higher level rating will also be blocked from viewing. (i.e.: If "R" is selected to be blocked, NC-17 and X will automatically be blocked.)

**NOTE:** If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code.








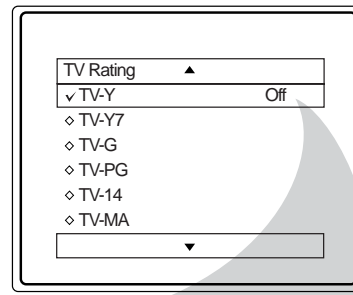
*The AutoLock™ feature can block programming based on the TV Industry ratings.*

*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

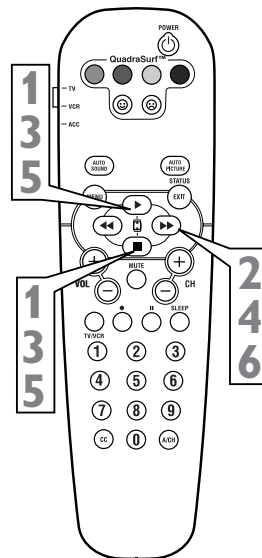
- 1** Press the **CURSOR UP**  or **DOWN**  buttons to highlight the words TV Rating.
- 2** Press the **CURSOR RIGHT**  button to display the TV Rating options (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).
- 3** Press the **CURSOR UP**  or **DOWN**  buttons to highlight any of the TV Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

**NOTE:** Some TV RATING options also have sub-ratings. The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).

- 4** Press the **CURSOR RIGHT**  button on the remote to turn the TV-Y or TV-G rating On or Off. Or, press the **CURSOR RIGHT**  button to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.
- 5** If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press the **CURSOR UP**  or **DOWN**  buttons to select one of the options (Block All, V, S, L, D, or FV).
- 6** Press the **CURSOR RIGHT**  button on the remote to turn the option ON or OFF.



|         |                       |
|---------|-----------------------|
| ✓ TV-Y  | On                    |
| ✓ TV-Y7 | Block All, FV         |
| ✓ TV-G  | Off                   |
| ✓ TV-PG | Block All, V, S, L, D |
| ✓ TV-14 | Block All, V, S, L, D |
| ✓ TV-MA | Block All, V, S, L    |



## 27

## BLOCKING OPTIONS

**A**utoLock™ offers the viewer other blocking features as well. With these Blocking Options, the censoring can be turned ON or OFF. Once you've entered your access code and the AutoLock™ features are displayed on the screen:

**1** Press the **CURSOR UP** or **DOWN** buttons until the words **Block Options** are highlighted.

**2** Press the **CURSOR RIGHT** button to display the **Blocking Options** (Blocking, Unrated, or No Rating) menu.

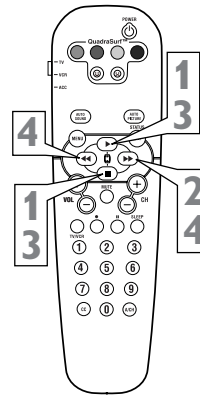
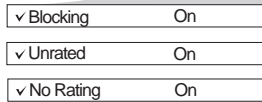
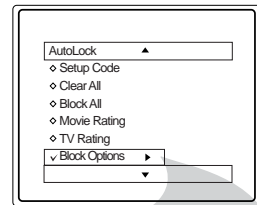
**Blocking:** Might be called the “master switch” for AutoLock™. When On, ALL blocking/censoring will take place. When Off, ALL blocking is disabled.

**Unrated:** ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to On and the Blocking feature is set to OFF.

**No Rating:** ALL programming with NO content advisory data can be blocked if set to On and the Blocking feature is set to OFF.

**3** Press the **CURSOR UP** or **DOWN** buttons to highlight the desired feature.

**4** When highlighted, each feature can be turned **On** or **Off** using the **CURSOR RIGHT** or **CURSOR LEFT** buttons on the remote.

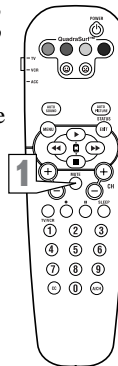


## DEMO MODE

**W**ith Demo Mode On, a split screen demo will be shown on the screen. The Demo Mode will show the right side will show a sharper image with more natural motion.

**1** Press the **MUTE** button on the remote approximately 3-4 seconds. The split screen demo appears. After 20 seconds, the TV will automatically return to normal operation.

**Note:** You can also turn the Digital Picture Demo On or Off by using on-screen menu.

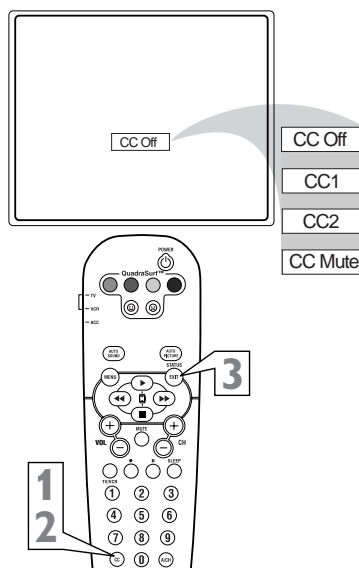


## 28

## CLOSED CAPTIONING

**C**losed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

- 1** Press the **CC** button on the remote to display the current Closed Caption setting.
- 2** Press the **CC** button repeatedly to choose from the four Closed Caption options (CC Off, CC1, CC2, CC Mute).
- 3** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

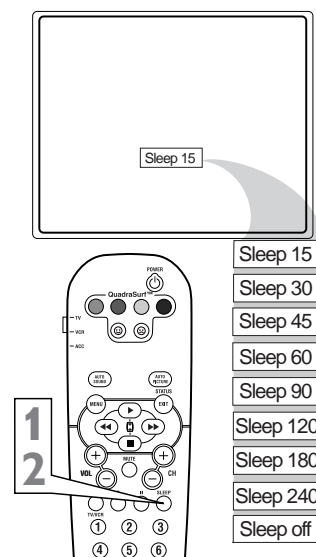


## SLEEPTIMER

**Y**our TV can be set to automatically turn itself off at a given amount of time.

- 1** Press the **SLEEP** button on the remote control and the SLEEP timer display will appear on the screen.
- 2** Press the **SLEEP** button repeatedly to pick the amount of time (15, 30, 45, 60, 90, 120, 180, or 240 minutes) before the TV will turn itself off.

**NOTE:** An on-screen count down will appear during the last minute before the TV shuts itself off. If any button is pressed during the last minute of the countdown, the Sleep timer setting will be cancelled.





# 29

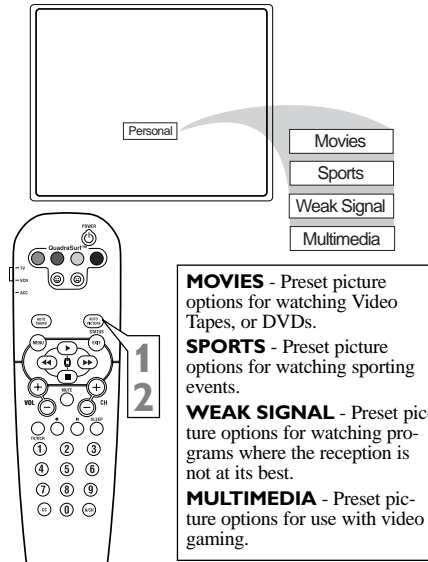
## AUTO PICTURE

*Whether you're watching a movie or a sporting event, your TV has automatic video control settings matched for your current program source or content.*

**1 Press the AUTO PICTURE button** on the remote control. The current Auto Picture setting will be displayed on the screen.

**2 Press the AUTO PICTURE button repeatedly** to select either Personal, Movies, Sports, Weak Signal, or MULTIMEDIA picture settings.

**NOTE:** The way you choose to set the Picture Menu Controls will become your Personal setting.



**MOVIES** - Preset picture options for watching Video Tapes, or DVDs.

**SPORTS** - Preset picture options for watching sporting events.

**WEAK SIGNAL** - Preset picture options for watching programs where the reception is not at its best.

**MULTIMEDIA** - Preset picture options for use with video gaming.

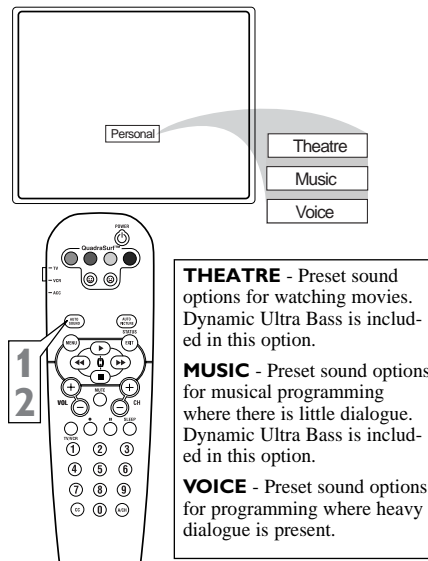
## AUTO SOUND

*The Auto Sound feature allows the listener to select between four different factory set sound options.*

**1 Press the AUTO SOUND button** on the remote control. The current Auto Sound setting will appear in the middle of the screen.

**2 Press the AUTO SOUND button repeatedly** to toggle between the four settings. (Personal, Theatre, Music, or Voice)

**NOTE:** The way you choose to set the Sound Menu Controls will become your Personal setting.



**THEATRE** - Preset sound options for watching movies. Dynamic Ultra Bass is included in this option.

**MUSIC** - Preset sound options for musical programming where there is little dialogue. Dynamic Ultra Bass is included in this option.

**VOICE** - Preset sound options for programming where heavy dialogue is present.

*The QuadraSurf™ control allows you set up four different personal channel Surf lists using the colored buttons (on the remote control), each holding up to ten channels in its quick viewing “list.”*

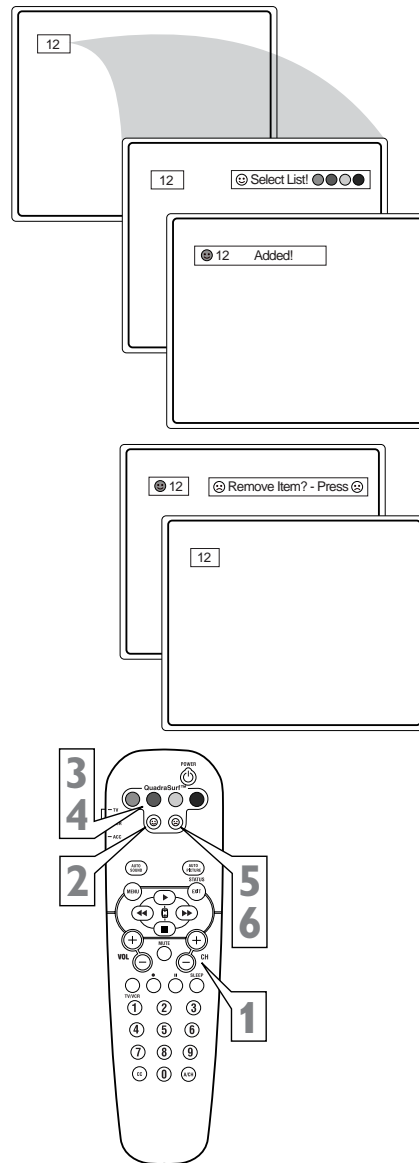
- 1 Press the CHANNEL (+) or (-) buttons** (or the NUMBER buttons) to select a channel to add to one of the SURF lists.
- 2 Press the SMILEY ☺ button** on the remote control to ADD the channel to one of the SURF lists.
- 3 Press the corresponding COLORED (Red, Green, Yellow or Blue) button** to add the channel to that button’s Surf list. (Up to ten channels per button can be stored.)

Repeat steps 1 through 3 to add additional channels (up to 10) to each of the SURF lists.

**To remove a channel from one of the SURF lists;**

- 4 Press the COLORED Quadra Surf button** until the desired channel appears. The screen will display the channel number with a colored “Smiley” face to indicate the Colored button it relates to.
- 5 While the “Smiley” face channel indicator is displayed, press the FROWNIE ☹ face button.** The screen will read, “Remove item? - Press ☹.”
- 6 Press the FROWNIE ☹ face button again** to confirm your decision to remove the channel from the Surf list.

Repeat steps 4-6 to remove other channels from Surf lists.



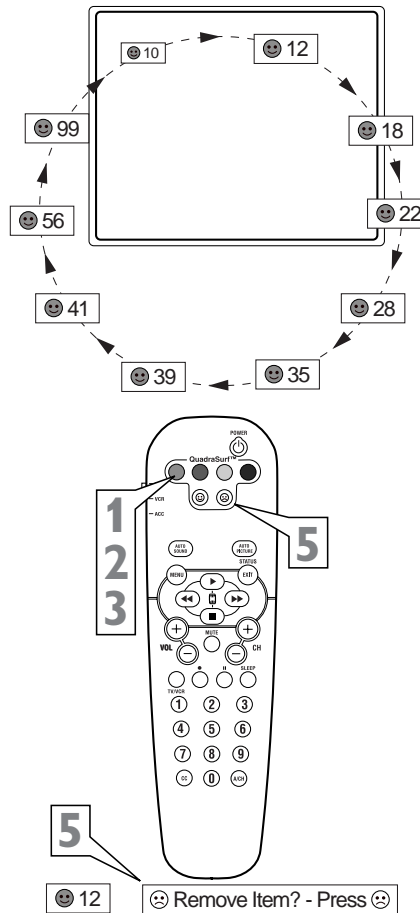
*The Quadra Surf buttons on your remote control allow you to store up to 10 channels per button (40 total). You can even program the A/V Input channels for each button making them a “source” button.*

*Assuming channels have now been added to the four Quadra Surf lists (the four colored buttons, see the previous page), let’s review how the feature works.*

- 1** Press one of the pre-programmed **COLORED** buttons on the remote (Red, Green, Yellow or Blue). The screen will display a smiley face with the first programmed channel for that surf list.
- 2** While the colored “smiley” face still appears on the screen, press the same **COLORED** button on the remote to tune the second channel programmed for that specific surf list.
- 3** Repeatedly pressing the same **COLORED** button while the “smiley” face appears will tune all the programmed channels. Pressing the **COLORED** button again will return you to the first channel in the list.

If the “smiley” face disappears from the screen and the same **COLORED** button is pressed, the surf channels will be displayed starting with the **FIRST** programmed channel again.

- 4** Repeat steps 1-3 for the other three **COLORED** buttons (Surf lists) if desired.
- 5** Any time the “smiley” face appears with the channel number, pressing the “frownie” face button will allow you to remove it from the list (see the previous page for more details).



# 32

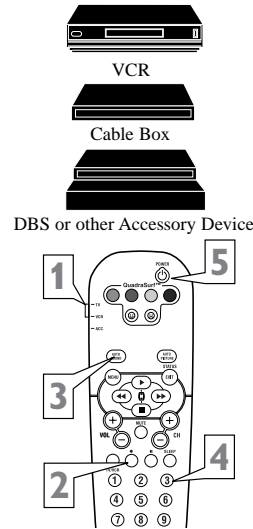
## REMOTE USE - CODE ENTRY FOR ACCESSORIES

*If your remote control will not operate your accessory devices, look up the four-digit code listed by your brand on panels 27-29.*

Please read through steps 1-5 before beginning.

- 1 Place the TV/VCR/ACC Mode Switch in the proper position.
- 2 Press the VCR • RECORD button on the remote control and release.
- 3 Press the AUTO SOUND button on the remote within 30 seconds, then release.
- 4 Enter the FOUR-DIGIT REMOTE CODE NUMBER for your desired device. The remote is now ready to send commands to the unit.
- 5 Point the remote at the Device. Press the POWER button on the remote to turn the unit ON.

If this doesn't work the first time, repeat the steps using another remote code number.

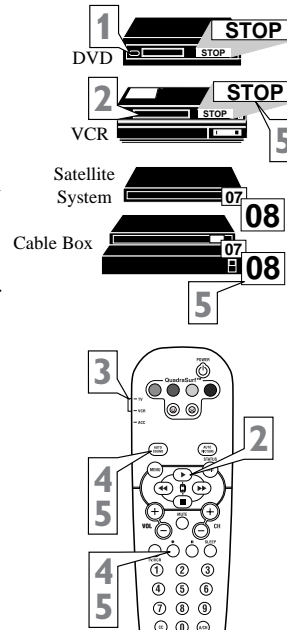


## REMOTE USE - SEARCH METHOD FOR ACCESSORIES

*The Search Method of programming your remote can take as long as 12 minutes to perform so we recommend you use it as a last resort.*

Please read all the steps below before beginning.

- 1 Press the POWER button on the device you are attempting to program to turn it ON.
- 2 If programming a VCR or DVD type product that has a STOP play command, place a VCR Tape or DVD disc into the device. Press the PLAY button.
- 3 Place the TV/VCR/ACC Mode Switch in the proper position. VCR for programming Video Cassette Recorders or ACC for all other accessory devices.
- 4 Press the VCR • RECORD and the AUTO SOUND buttons simultaneously and hold them down. As you continue to hold down buttons, the remote will run through its programmed code list with a command for the VCR or DVD to STOP play. Or, for Cable Boxes and Satellite Receivers the command will be to CHANGE CHANNELS.
- 5 When the STOP command happens release the two buttons. Or for Cable Boxes and Satellite Receivers, as soon as the channel changes ONCE, IMMEDIATELY release the two buttons.



## VCR CODES

Admiral .....2027, 2052  
 Aiwa ..2001, 2017, 2062, 2070, 2072  
 Akai ..2021, 2029, 2038, 2060, 2063  
 Audiovox .....2017  
 Blaupunkt ..2003, 2005, 2010, 2014,  
 .2041, 2042, 2048, 2054, 2055, 2075  
 Broksonic .....2002, 2040,  
 .....2046, 2052, 2078  
 Craig ..2017, 2026, 2034, 2057, 2058  
 Curtis Mathes 2015, 2021, 2032, 2042  
 Daewoo 2011, 2024, 2025, 2059, 2083  
 Denon .....2022  
 Dumont .....2001, 2035, 2037  
 Dynatech .....2001  
 Electrohome .....2017  
 Emerson 2001, 2002, 2017,  
 2023, 2040, ..2046, 2051, 2052, 2059,  
 2078, 2083  
 Fisher .....2025, 2026, 2030, 2037  
 Funai .....2001  
 GE .....2015, 2027, 2032, 2057  
 Go Video .....2077, 2081  
 Goldstar ...2017, 2018, 2053, 2079  
 Granada .....2025, 2035, 2037  
 Grundig .....2003, 2005, 2007,  
 .....2010, 2034, 2035, 2048,  
 .....2050, 2054, 2069, 2071, 2075  
 Harley Davidson .....2001  
 Harman/Kardon .....2018, 2035  
 Hitachi .....2001, 2004,  
 .....2021, 2022, 2043, 2057  
 Hughes Network Systems .....2022  
 Jensen .....2021  
 JVC .....2008, 2021,  
 .....2033, 2049, 2050, 2074, 2080  
 Kenwood .....2018, 2021, 2033  
 KLH .....2034  
 Kodak .....2015, 2017  
 LG .....2079  
 Lloyd's .....2001, 2051  
 Loewe .....2004, 2005, 2017, 2035  
 LXI .....2017  
 Magnavox ..2001, 2015, 2019, 2035

## VCR CODES

Marantz .....2003, 2005, 2015, 2035  
 Matsushita .....2015, 2042, 2055  
 Memorex ...2001, 2015, 2017, 2019,  
 .....2025, 2026, 2027, 2037, 2052,  
 .....2057, 2062, 2085, 2087, 2088  
 MGA .....2023, 2057  
 Minolta .....2022  
 Mitsubishi .....2023, 2027,  
 .....2033, 2035, 2045  
 Motorola .....2015, 2027  
 NEC ..2018, 2020, 2021, 2033, 2037  
 Nikon .....2014  
 Nokia .....2025, 2037, 2038, 2057  
 Nokia .2021, 2025, 2037, 2038, 2057  
 Olympus .....2015, 2054  
 Optimus ...2017, 2027, 2031, 2037,  
 .....2042, 2077, 2086, 2087, 2088  
 Orion .....2002, 2004, 2016, 2036,  
 .....2046, 2052, 2070, 2072, 2078  
 Panasonic .....2015, 2042, 2053,  
 .....2054, 2055, 2087  
 Philco .....2015, 2018, 2052, 2078  
 Philips 2015, 2035 (DEFAULT VCR),  
 .....2074, 2075  
 Pioneer .....2031, 2033, 2035  
 Portland .....2011  
 Proscan .....2032  
 Protec .....2034  
 Quasar .....2015, 2042, 2087  
 Radio Shack .....2001, 2085  
 RCA ..2015, 2022, 2027, 2032, 2038,  
 2057  
 Realistic .....2001, 2015, 2017,  
 .....2025, 2026, 2027, 2037  
 Ricoh .....2014  
 Runco .....2019  
 Samsung ...2024, 2057, 2076, 2077  
 Sansui .....2001, 2021, 2033,  
 .....2052, 2058, 2078  
 Sanyo .....2025, 2026, 2037, 2057  
 Scott .....2023, 2024, 2040, 2046  
 Sears .....2001, 2015, 2017,  
 .....2022, 2025, 2026, 2037

**VCR CODES**

|                    |                                   |
|--------------------|-----------------------------------|
| Sears              | .....2001, 2015, 2017,            |
| .....              | .....2022, 2025, 2026, 2037       |
| Sharp              | .....2027, 2073                   |
| Shintom            | .....2034, 2037                   |
| Sony               | .....2001, 2012, 2013, 2014, 2015 |
| Sylvania           | .....2001, 2015, 2023, 2035       |
| Symphonic          | .....2001                         |
| Teac               | .....2001, 2021                   |
| Technics           | .....2015, 2042, 2054             |
| Teknika            | .....2001, 2015, 2007, 2017       |
| Thomson            | .....2021, 2064, 2074             |
| Toshiba            | 2021, 2023, 2024, 2035, 2074      |
| Victor             | .....2008, 2021, 2033             |
| Video Concepts     | .....2020, 2024                   |
| Wards              | .....2001, 2015, 2022, 2026,      |
| .....              | .....2027, 2032, 2034, 2035, 2057 |
| White Westinghouse | .....2052, 2059                   |
| Yamaha             | .....2018                         |
| Zenith             | ..2001, 2014, 2019, 2052, 2078    |

**DIGITAL VIDEO DISC CODES**

|               |                            |
|---------------|----------------------------|
| Akai          | .....5316                  |
| Harman/Kardon | .....5314                  |
| JVC           | .....5311, 5318            |
| Kenwood       | .....5307                  |
| Magnavox      | .....5302                  |
| Mitsubishi    | .....5303                  |
| Onkyo         | .....5302, 5317, 5319      |
| Panasonic     | .....5301, 5322            |
| Philips       | ..5302, 5308 (DEFAULT DVD) |
| Pioneer       | .....5305, 5312, 5321      |
| Proscan       | .....5304                  |
| RCA           | .....5304                  |
| Samsung       | .....5313                  |
| Sharp         | .....5320                  |
| Sony          | .....5306                  |
| Technics      | .....5301                  |
| Thomson       | .....5310                  |
| Toshiba       | .....5302                  |
| Yamaha        | .....5301, 5309            |

**CABLE CODES**

|                    |                                   |
|--------------------|-----------------------------------|
| ABC                | .....3002, 3003, 3004, 3006, 3008 |
| Bell & Howell      | .....3006                         |
| Cabletime          | .....3016, 3019, 3025, 3029       |
| Decsat             | .....3027                         |
| .....              | .....3007                         |
| General Instrument | .....3004, 3020,                  |
| .....              | .....3031, 3046                   |
| Goldstar           | .....3014, 3047                   |
| Grundig            | .....3035                         |
| Hitachi            | .....3004                         |
| Jasco              | .....3007                         |
| Jerrold            | .....3002, 3004, 3005, 3006,      |
| .....              | .....3007, 3020, 3031, 3046       |
| LG Alps            | .....3044                         |
| Memorex            | .....3001                         |
| Oak                | .....3009                         |
| Pacific            | .....3039                         |
| Panasonic          | .....3001, 3013                   |
| Paragon            | .....3001                         |
| Pioneer            | .....3014, 3036                   |
| Pulsar             | .....3001                         |
| Quasar             | .....3001                         |
| Radio Shack        | .....3007                         |
| Rembrandt          | .....3004                         |
| Runco              | .....3001                         |
| Samsung            | .....3014, 3040                   |
| Satbox             | .....3024                         |
| Scientific         | .....3003, 3032, 3049             |
| Scientific Atlanta | .....3003, 3008, 3021             |
| Signal             | .....3007                         |
| Signature          | .....3004                         |
| Starcom            | .....3002, 3007                   |
| Stargate           | .....3007                         |
| Starquest          | .....3007                         |
| STS                | .....3015                         |
| Tusa               | .....3007                         |
| United Cable       | .....3002                         |
| Videoway           | .....3017                         |
| Zenith             | .....3001, 3034                   |

## SATELLITE CODES

|                          |  |
|--------------------------|--|
| Amstrad .....            | 4003, 4016, 4025,<br>.....4038, 4039, 4042       |
| Armstrong .....          | 4015   |
| AST .....                | 4027   |
| Astro .....              | 4008, 4039, 4045                                 |
| Avalon .....             | 4031   |
| Axis .....               | 4030, 4046                                       |
| Best .....               | 4030   |
| Blaupunkt .....          | 4008   |
| Brain Wave .....         | 4022   |
| Bush .....               | 4002   |
| Cambridge .....          | 4024   |
| Channel Master .....     | 4029   |
| Comlink .....            | 4019   |
| Echostar .....           | 4031, 4036, 4061                                 |
| Ferguson .....           | 4002, 4009, 4010, 4023                           |
| Fidelity .....           | 4016   |
| General Instrument ..... | 4012   |
| Grundig .....            | 4008, 4010, 4048                                 |
| G-sat .....              | 4009   |
| Hirschmann .....         | 4008, 4032, 4039,<br>.....4040, 4049             |
| Hitachi .....            | 4037   |
| Houston .....            | 4053   |
| Intervision .....        | 4050   |
| ITT .....                | 4005   |
| JVC .....                | 4048   |
| Lennox .....             | 4050   |
| Luxor .....              | 4005, 4049                                       |
| Manhattan .....          | 4037, 4045, 4050                                 |
| Marantz .....            | 4011   |
| Maspro .....             | 4004, 4023                                       |
| Matsui .....             | 4024, 4048                                       |
| Neusat .....             | 4057   |
| Newhaus .....            | 4013   |
| Nokia .....              | 4005, 4032, 4037,<br>.....4049, 4054, 4063       |
| Pace .....               | 4002, 4009, 4014, 4023,<br>.....4037, 4055, 4058 |

## SATELLITE CODES

|                       |  |
|-----------------------|--|
| Philips .....         | 4007, 4011, 4020,<br>.....4037, 4048, 4059 |
| Pioneer .....         | 4021, 4059                                 |
| Planet .....          | 4061                                       |
| Promax .....          | 4037                                       |
| Prosat .....          | 4019                                       |
| Quadral .....         | 4029, 4044                                 |
| Sabre .....           | 4037                                       |
| SAT .....             | 4027, 4038                                 |
| Satcom .....          | 4026, 4051                                 |
| SEG .....             | 4030, 4034                                 |
| Siemens .....         | 4008                                       |
| Skymaster .....       | 4019, 4044, 4051                           |
| Sony .....            | 4017, 4018                                 |
| Sunstar .....         | 4043                                       |
| Telefunken .....      | 4034                                       |
| Telesat .....         | 4051                                       |
| Thomson .....         | 4037, 4059                                 |
| Triad .....           | 4027                                       |
| Triasat .....         | 4040                                       |
| Universum .....       | 4008, 4049                                 |
| Ventana .....         | 4011                                       |
| Vortec .....          | 4034                                       |
| Vtech .....           | 4027                                       |
| Xcom Multimedia ..... | 4065                                       |
| Xsat .....            | 4006, 4065                                 |



**NOTE:** If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

**NOTA:** Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

**NOTA:** Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

**In Canada:** How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product. Please contact Philips at:

1-800-661-6162 (French speaking)  
 1-800-363-7278 (English or Spanish speaking)

**Au Canada:** Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile. Veuillez contacter philips à:

1-800-661-6162 (Francophone)  
 1-800-363-7278 (Anglais ou Espagnol)

**En el Canadá:** Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio. Favor de comunicarse con Philips al:

1-800-661-6162 (français)  
 1-800-363-7278 (Inglés o Español)



**QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE.**

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

**ATLANTA**

Philips Factory Service  
550 Franklin Road.,  
Suite F  
Marietta, GA 30067  
800-273-1501

**TAMPA**

Philips Factory Service  
1911 US Highway 301  
North, Suite 100  
Tampa, FL 33619  
800-442-2027

**SAN FRANCISCO**

Philips Factory Service  
681 East Brokaw Rd.  
San Jose, CA 95112  
800-300-9013

**HOUSTON**

Philips Factory Service  
1110 N. Post Oak Rd.,  
Suite 100  
Houston, TX 77055  
800-952-3254

**CLEVELAND**

Philips Factory Service  
950 Keynote Circle  
Brooklyn Heights, OH  
44131  
800-331-7037

**DETROIT**

Philips Factory Service  
25173 Dequindre  
Madison Heights, MI  
48071  
800-438-1398

**DALLAS**

Philips Factory Service  
415 N. Main Street,  
#107  
Euless, TX 76040  
800-952-3254

**CHICAGO**

Philips Factory Service  
1279 W. Hamilton  
Pkwy.  
Itasca, IL 60143  
800-531-2922

**KNOXVILLE**

Philips Factory Service  
One Philips Drive  
Knoxville, TN 37914  
800-821-1767

**PHILADELPHIA**

Philips Factory Service  
352 Dunks Ferry Rd.  
Bensalem, PA 19020  
800-847-9320

**LOS ANGELES**

Philips Factory Service  
20930 Bonita, Ste. V  
Carson, CA 90746  
800-300-9013

### **COLOR TELEVISION** - 90 Days Free Labor; One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube) Can be repaired in-home.

#### **WHO IS COVERED?**

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

#### **WHAT IS COVERED?**

Warranty coverage begins the day you buy your product. ~~For 90 days thereafter~~, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

#### **WHAT IS EXCLUDED?**

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

#### **WHERE IS SERVICE AVAILABLE?**

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the

local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

#### **MAKE SURE YOU KEEP...**

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

#### **BEFORE REQUESTING SERVICE...**

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

#### **TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...**

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

#### **WARRANTY COVERAGE IN CANADA...**

Note: Product Warranty coverage may vary between countries where product is distributed by Philips Consumer Electronics Company. In order to receive full and specific warranty details for products sold and serviced in Canada, please contact Philips at:

**1-800-661-6162** (French Speaking)

**1-800-531-0039** (English and Spanish Speaking)

#### **REMEMBER...**

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

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*This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.*

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**Philips, P.O. Box 520890  
Miami, FL 33152  
(402) 536-4171**